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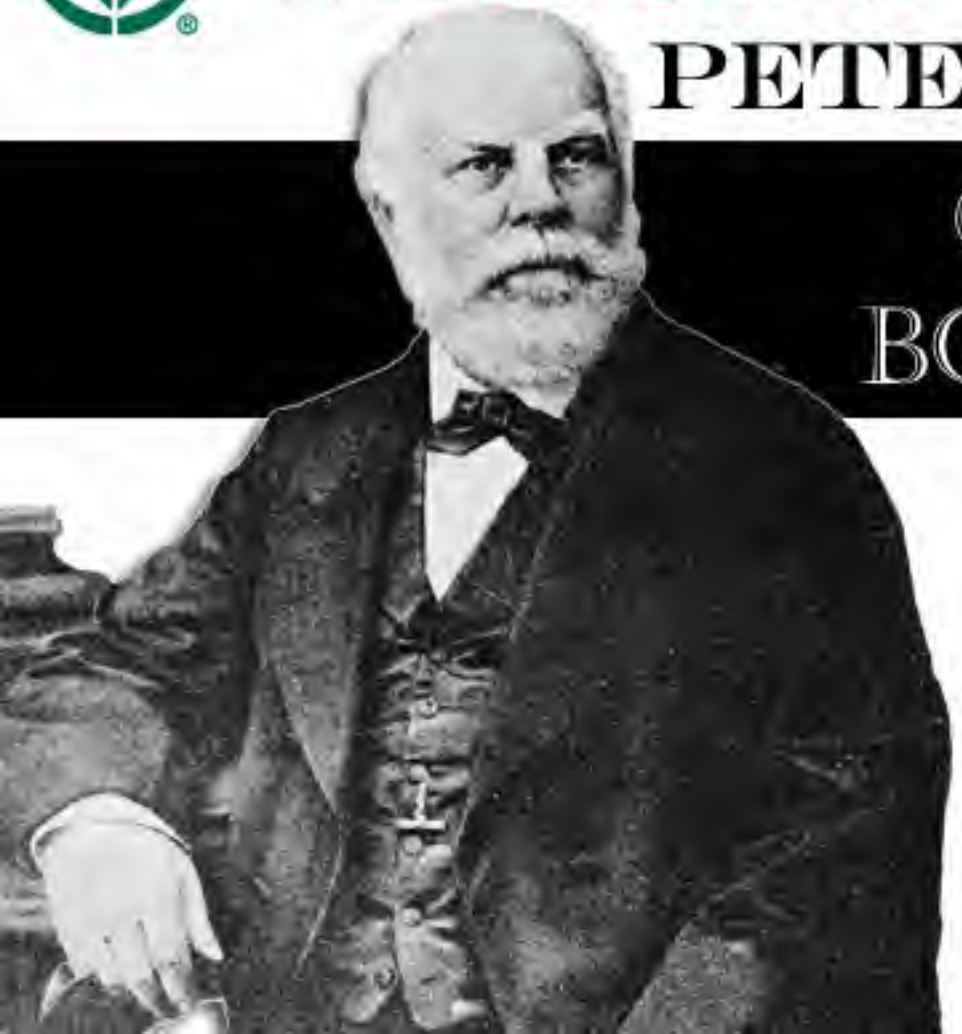

Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

3.—*Yearly Mean of Positive Electricity, of Temperature and of Relative Humidity of the Atmosphere at the hours of* 6, 9, 12, 3, 6 *and* 9, *from morning till night, based upon daily observations at those hours in* 1861—1867.

ELECTRICITY.

Year.	6 A. M.	9 A. M.	12 M.	3 P. M.	6 P. M.	9 P. M.
1861	8.5	9.9	9.0	7.7	8.5	6.8
1862	8.9	10.0	9.1	7.3	8.1	6.8
1863	10.5	10.6	10.0	7.5	9.1	7.4
1864	7.9	8.8	7.4	5.4	5.9	5.5
1865	6.4	7.1	6.0	5.3	5.4	3.8
1866	5.5	6.2	5.2	4.5	5.2	4.4
1867	5.2	5.6	4.9	4.2	4.3	3.8
Mean:	7.6	8.3	7.4	6.0	6.6	5.5

TEMPERATURE.

1861	48.9	54.9	61.6	63.6	59.3	54.3
1862	48.9	55.0	60.9	62.3	58.0	53.6
1863	47.5	53.6	59.7	61.0	57.2	52.2
1864	48.9	54.1	62.5	63.3	58.1	53.9

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YEARLY REPORT OF ATMOSPHERIC ELECTRICITY, TEMPERATURE, AND HUMIDITY, FROM OBSERVATIONS MADE AT ST. LOUIS, MO.

By A. WISLIZENUS, M.D.

1.—*Monthly Mean of Positive Atmospheric Electricity in* 1861–1867, *based on daily observations at* 6, 9, 12, 3, 6, *and* 9 *o'clock, from morning till night.*

ATMOSPHERIC ELECTRICITY.

YEAR.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861	16.5	12.1	9.8	8.8	7.8	4.0	3.7	3.4	3.0	7.1	10.0	14.3	8.4
1862	12.1	16.0	9.4	10.6	7.5	3.0	2.2	2 3	3.0	7.7	12.6	13.9	8.4
1863	16.9	15.9	13.6	8.8	4.7	2.0	2.8	4.4	4.8	12.5	12.1	11.5	9.2
1864	15.8	11.3	11.0	8.5	5.1	4.0	2.3	0.9	1.8	5.4	6.6	9.0	6.8
1865	12.2	9.5	5.9	3.3	2.4	3.4	2.6	5.9	1.2	5.3	10.1	6.4	5.7
1866	5.9	8.1	5.7	2.1	3.3	2.1	2.4	5.1	3.2	7.0	10.2	7.0	5.2
1867	9.2	8.2	6.5	3.3	2.9	2.8	2.7	5.2	3.5	3.0	4.2	4.2	4.6
Mean	12.7	11.6	9.0	6.5	4.8	3.0	2.7	3.9	2.9	6.9	9 4	9.5	6.9

2.—*Monthly Mean of Temperature and Relative Humidity, in* 1861–1867, *based upon daily observations contemporaneous with those of Atmospheric Electricity.*

TEMPERATURE.

YEAR.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861	32.2	40.4	44.8	58.1	64.1	76.9	77 5	78.6	69.1	57.9	46 0	39.7	57.1
1862	28.9	30.2	43.2	55.0	69.7	75.1	81.2	80.7	72.1	57.3	42.6	41.3	5.64
1863	36.8	35.7	43.6	57 4	65.5	71.9	77.2	77.5	69.2	48.0	43.7	35.9	55.2
1864	29.2	38.3	40.7	51.4	69.4	78.9	83.5	78.8	72.9	53.1	44.9	30.4	56.0
1865	28.1	38.4	46.7	56.8	68.8	80.7	77.7	78.1	77.8	58.8	48.0	30.8	57.5
1866	32.2	33.4	42.2	61.2	66.3	75.3	82.2	76.8	64.0	59.3	46.6	33.3	56.0
1867	25.4	39.1	34.1	56.7	61.1	76.9	81.3	81.4	68.5	59.6	49 2	36.1	55 8
Mean	30.4	36.5	42.2	56.7	66.4	76.5	80.1	78.8	70.5	56.3	45.9	35.4	56.3

RELATIVE HUMIDITY.

1861	72 2	63 3	64.5	61.5	66.3	70 8	66.3	69.6	77.3	76.6	69.0	74.3	69.5
1862	85.3	73 9	70.8	67.0	57.3	67 0	66.8	64.3	74.2	67.2	69.5	74.6	69.8
1863	79.2	81.7	68 1	57 2	59.4	67 7	68 6	70 7	68.2	74.4	67.4	79.5	70.2
1864	75.6	62 7	70 0	69 8	56 4	61 5	62 8	69 0	64 1	67.9	74.2	75.5	67.4
1865	74 6	72.0	66.1	66.8	62.1	67.9	77.4	71 7	76.8	74.1	62.3	78.8	70.9
1866	75.1	70.6	69 1	60 6	59.7	66 0	68.2	66 7	81 8	71.7	72.5	76.8	69.9
1867	76.2	73 5	75.7	59.1	61 4	64 8	63 9	60 0	63.7	67.9	64.9	77.6	67.4
Mean	76.9	71.1	69 2	63.1	60.4	66.5	69.0	68 7	72.3	71.4	68.5	76.7	69.3

0 1 2 3 4 5 6 7 8 9 10
cm
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Mean:	48 6	54 6	60.7	62.2	58.2	53·5

RELATIVE HUMIDITY.

1861	86.4	71.3	60.3	57.2	65.1	77.3
1862	85.3	70.6	60.0	57.5	67.6	78.0
1863	86.8	71.4	60 2	58.0	66.7	77·9
1864	83·9	69·3	57·7	55.0	64 0	74·8
1865	84·7	71·7	61.3	59·0	68.3	78.9
1866	84.9	70.1	60.6	58.6	67.4	77·8
1867	83.1	68.4	57·9	55·0	64.6	75·4
Mean:	85.0	70.4	59·7	57.2	66.2	77.2

10708

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Mrs Florentin

Oct 16 1868

A. plant named Abies Jezoensis
Pinus Fortunei Parlat
China 52 Fortune 1848-51
has the Com of an Abies, but scales not
or at least not easily deciduous, seeds
similar, but

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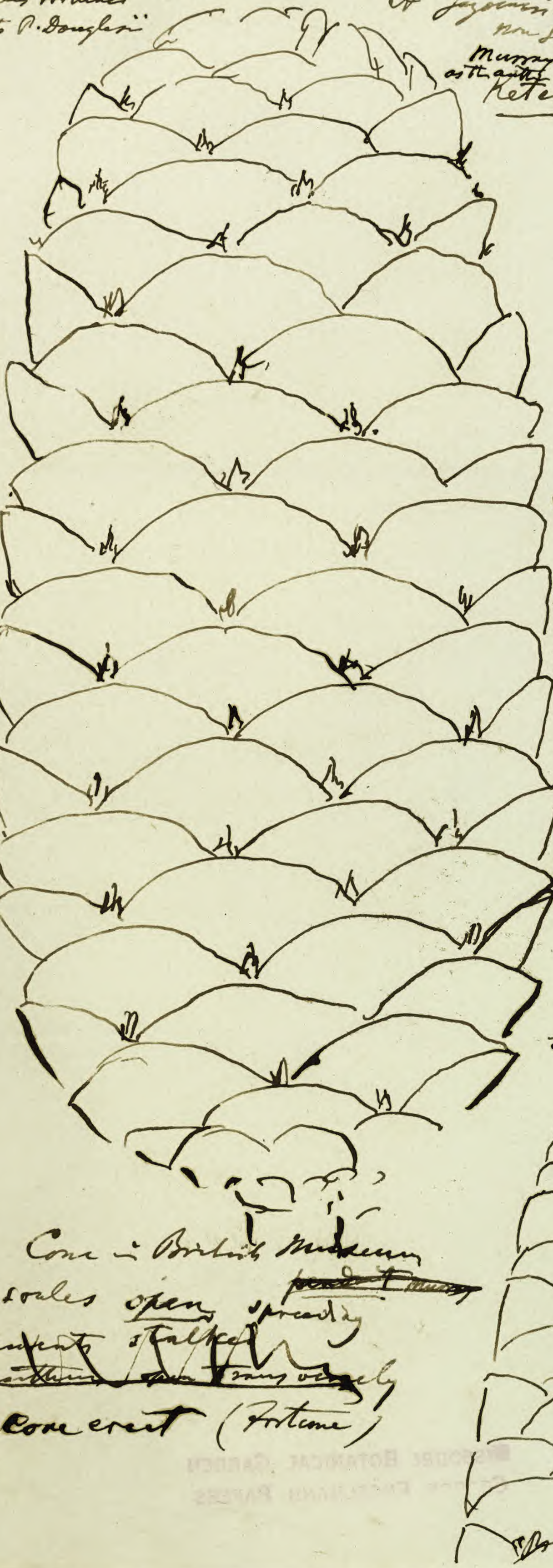
Dr Prod (Pinetum) p. 430

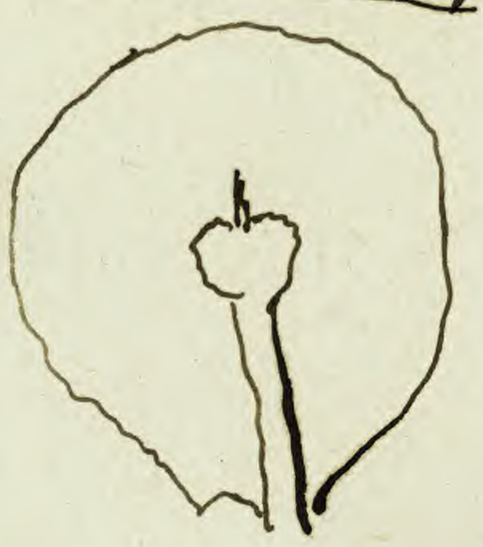
Pinus Fortunei
next to P. Douglasii



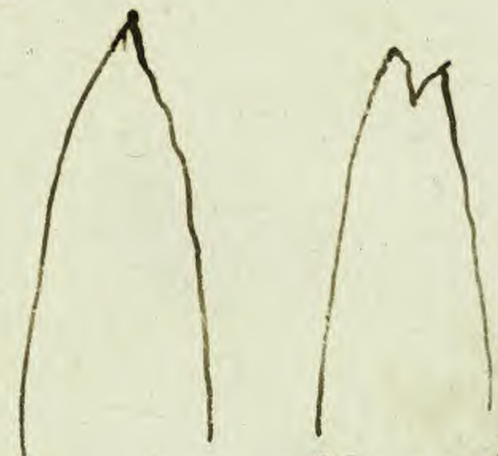
Cone in British Museum
scales open, already
ripened & fallen
apparently
Cone erect (Fortune)

Abies (Picea) Fortunei Lindl in
A Jaeger Lindl 1850 / Murray Conif Japan
non Lieb & Zucc 1842
Murray never
saw the quite ripe
Retelaera

Gard Chron 1850. p. 311
p. 49
(13 years earlier
Fortune Cam. Conif



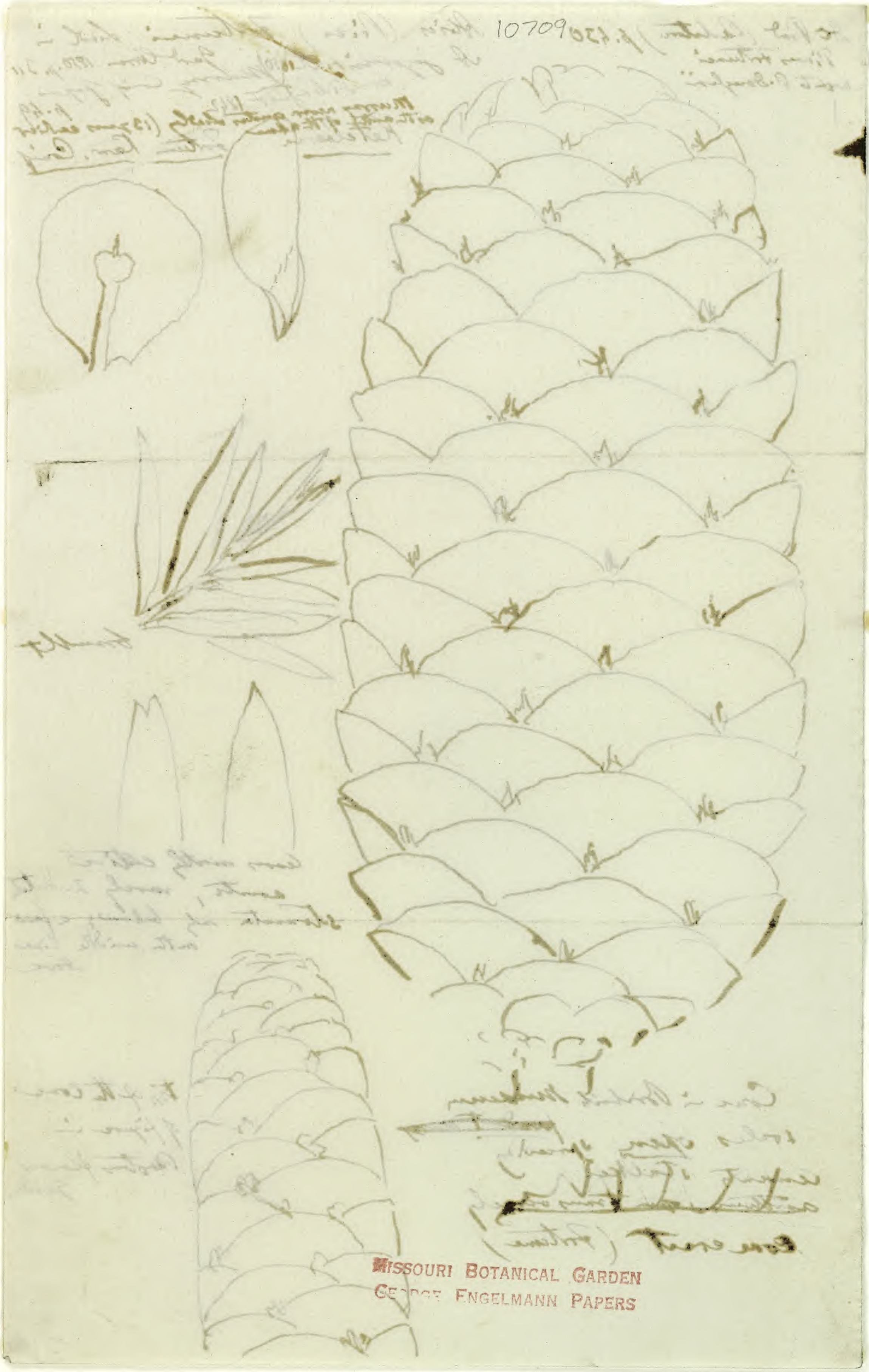
brunch



Cones mostly cultivated
ovate, rarely 2-lobed
stomata only below; apex
notch middle lines
above

top of the cone
of figure in
Abstracts flowers
Garden

10709



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bracts elongate inclose

Sept 7 1870

Pinus Fortunei Carr

Japan

52 Fortune, China 1848–51

46 Mus Florent 1858

27-28 : 19-20 mm

= 2¾ : 2

scales thickened

very convex

leaf terminates

prickly tip

leaf terminates elongated

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1627-8

Seeds glandulous reticulous
Thorpe different from Murray's Lam's
Anther Pollen unknown

Pinus Kaempf. Lambert
Abies L Link

Pin Sect. Pseudolarix Parlat = Dr Pinus 16.2. (1868)
pag 412

Pseudolarix Gordon Pin 1855 p. 644 292 fide Parlatore
Suppl 1858 p. 292 p. 91
Carr. Conif 2ed. 363 fide Murray

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cm
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H prodr IV. 84
T & G. I, 601

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11201

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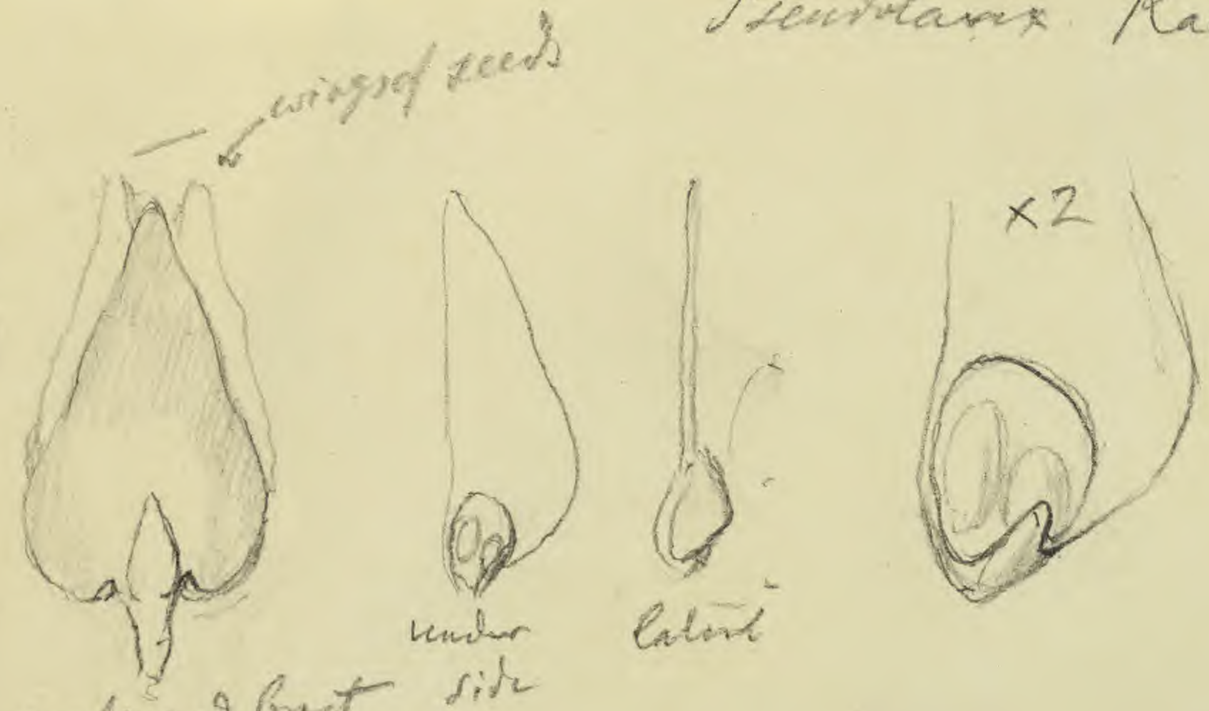
Nov 11 1879

Pseudolarix Kaempferi

Flushing, Long Island

Hort Prince



scales green, ± spreading at maturity and then exposing the white wings of the seeds

10712

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ST. LOUIS, MO.

No. ..... Date, ... 187

Rx

A. Kaempferi Lit. *Pseudolarix Kaempferi* Gordon Pin. (1858.) 262
Murray, Conif. Japan de de 1855 644
p. 108 (1863)

Abies Kaempferi Lindl. Penny Cyc. 1. 34. 1833
Pinus Kaempferi Lamb. Palett. Bot. 412
Chinese, not Japanese

axis of the cone in a fascicle of slender threads

scale of cone

seeds enclosed by folds of thin wing = abies

, seed test full of turgescence in Cedrus ?

Cones erect (Tsuga & Picea) pendulous (Pinus & Larix)

[These 2 points seem to represent the loose seed wings! — wedge or long and wide on one side (Abies) or Pinus & Larix: apex truncate bidentate

scales deciduous

Intermediate between Cedrus & Larix, deciduous

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